STATE OF UTAH  DEPARTMENT OF NATURAL RESOURCES  DIVISION OF OIL, GAS AND MINING									AMEN	FO DED REPOR	RM 3			
APPLICATION FOR PERMIT TO DRILL								1. WELL NAME and N	JMBER NBU 921	-23L GR				
2. TYPE OF WORK  DRILL NEW WELL ( REENTER P&A WELL  DEEPEN WELL  DEEPE							3. FIELD OR WILDCAT  NATURAL BUTTES							
4. TYPE OI	F WELL				Methane Well: NO					5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME C	F OPERATOR									7. OPERATOR PHONE				
8. ADDRES	SS OF OPERATO	DR .			S ONSHORE, L.P.				-	9. OPERATOR E-MAIL				
10. MINER	AL LEASE NUM		P.O. Box 17377		ver, CO, 80217  1. MINERAL OWNERS	SHIP			_	julie.ja		anadarko.	com	
(FEDERAL	., INDIAN, OR ST	<b>FATE)</b> JTU 0149075			FEDERAL IND	DIAN 🔵	) STATE	) FEE		FEDERAL NI	DIAN 🔳	STATE	F	EE 🔵
13. NAME	OF SURFACE (	OWNER (if box 12 =	= 'fee')							14. SURFACE OWNER	R PHONE	(if box 12	= 'fee')	
15. ADDRI	ESS OF SURFA	CE OWNER (if box	12 = 'fee')							16. SURFACE OWNER	R E-MAIL	(if box 12	= 'fee')	
	N ALLOTTEE OF	R TRIBE NAME			B. INTEND TO COMM		PRODUCTION	FROM		19. SLANT				
(IT BOX 12	= 'INDIAN') Ut	e Indian Tribe		- 1			ling Applicatio	n) NO 📵		VERTICAL DIF	RECTION	AL D	IORIZON	AL 🔵
20. LOCA	TION OF WELL			FOOT	rages .	QT	r-qtr	SECTIO	N	TOWNSHIP	R	ANGE	ME	RIDIAN
LOCATIO	N AT SURFACE		180	7 FSL	1022 FWL	N	wsw	23		9.0 S	2	1.0 E		S
Top of U	ppermost Prod	ucing Zone	180	7 FSL	1022 FWL	N	wsw	23		9.0 S	2	1.0 E		S
At Total	Depth		180	7 FSL	1022 FWL	N	wsw	23		9.0 S	2	1.0 E		S
21. COUN	TY	UINTAH		22	2. DISTANCE TO NEA		EASE LINE (Fe	et)		23. NUMBER OF ACRI	ES IN DR 64		IT	
					5. DISTANCE TO NEA Applied For Drilling o		pleted)	POOL		26. PROPOSED DEPTI		TVD: 495	0	
27. ELEVA	TION - GROUN	D LEVEL		28	B. BOND NUMBER					29. SOURCE OF DRIL WATER RIGHTS APPR			DDI ICAB	. =
		4853				WYB0	000291			WATER RIGHTS AFTR		3496	TT EIGAB	<b></b>
O4 mi	II-I- Ci	Ozaina Ciza	Lameth	14/-:	Hole, Casing		-			Company		Caalia	Viala	\A/ - : b- 4
String	Hole Size	Casing Size 8.625	0 - 2780	Weigl 28.0			Max Muc	I Wt.		Cement Type V		Sacks 180	Yield 1.15	Weight 15.8
		0.020	0 2:00		0 00 210					Class G		270	1.15	15.8
PROD	7.875	4.5	0 - 4950	11.6	6 I-80 LT	&C	13.0		Premium Lite High Strength 150 3.38 11.0				11.0	
										50/50 Poz		640	1.31	14.3
					A	TTACH	IMENTS							
	VER	IFY THE FOLLO	WING ARE AT	TACHE	ED IN ACCORDAN	ICE WIT	TH THE UTA	H OIL AND	GAS	CONSERVATION G	ENERA	L RULES		
<b>₩</b>	ELL PLAT OR MA	AP PREPARED BY L	ICENSED SURV	EYOR O	OR ENGINEER		COMPLETE DRILLING PLAN							
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)							FORM	5. IF OPERA	TOR IS	S OTHER THAN THE LE	EASE OW	NER		
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						)	<b>№</b> торос	RAPHICAL I	MAP					
NAME Da	nielle Piernot			TITL	LE Regulatory Analyst	t		PHONE	720	929-6156				
SIGNATU	RE			DAT	Γ <b>E</b> 05/24/2012			EMAIL	danie	lle.piernot@anadarko.d	com			
	BER ASSIGNED 047527570	0000		APPI	PROVAL			B	Dol	Refill				
							F	Perm	it Manager					

NBU 921-23L Pad Drilling Program

1 of 4

# Kerr-McGee Oil & Gas Onshore. L.P.

NBU 921-23L GR

Surface: 1807 FSL / 1022 FWL NWSW BHL: 1807 FSL / 1022 FWL NWSW

Section 23 T9S R21E

Unitah County, Utah Mineral Lease: UTU-0149075

#### **ONSHORE ORDER NO. 1**

#### **DRILLING PROGRAM**

# Estimated Tops of Important Geologic Markers: Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1520	
Birds Nest	1810	Water
Mahogany	2331	Water
Wasatch	4836	Gas
TD	4950	

# 3. <u>Pressure Control Equipment</u> (Schematic Attached)

Please refer to the attached Drilling Program

#### 4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

#### 5. <u>Drilling Fluids Program:</u>

Please refer to the attached Drilling Program

# 6. <u>Evaluation Program</u>:

Please refer to the attached Drilling Program

NBU 921-23L Pad Drilling Program 2 of 4

# 7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 2,079 psi (0.42 psi/ft = actual bottomhole gradient) approximately equals

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 993 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

#### 8. <u>Anticipated Starting Dates:</u>

Drilling is planned to commence immediately upon approval of this application.

#### 9. Variances:

Please refer to the attached Drilling Program. Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- · Blowout Prevention Equipment (BOPE) requirements;
- · Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

#### **Background**

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may

NBU 921-23L Pad Drilling Program

be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill a 11inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

#### Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

#### **Variance for Mud Material Requirements**

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

#### Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMC well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and

on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

NBU 921-23L Pad Drilling Program 4 of 4

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

#### Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

#### Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

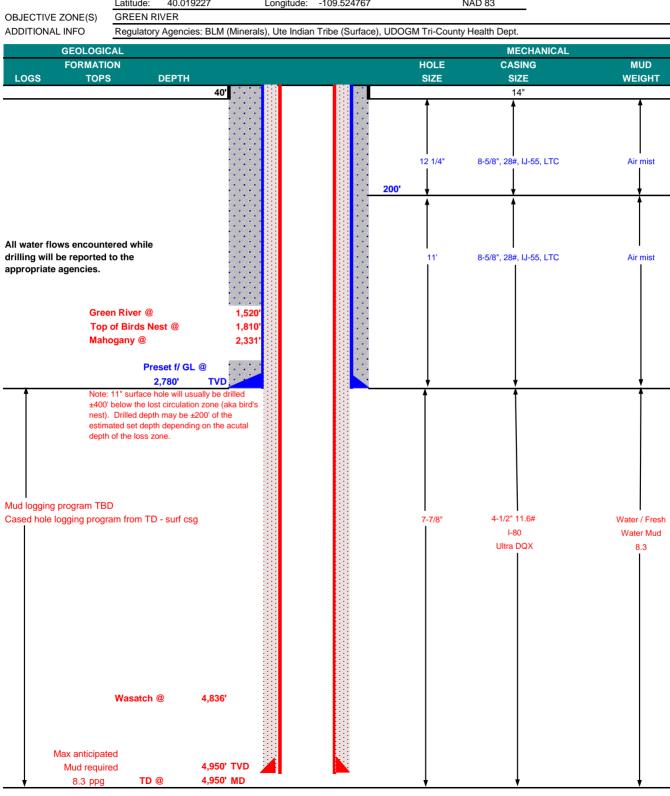
#### 10. Other Information:

Please refer to the attached Drilling Program.



# KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME KER	R-McGEE O	IL & GAS ONSH	ORE LP		DATE	Decembe	r 30, 2011		
WELL NAME NB	U 921-23L	. GR			TD	4,950'	TVD	4,950' MD	
FIELD Natural Butter	S	COUNTY	Uintah	STATE Uta	h	FINI	SHED ELEVATION	4,853'	
SURFACE LOCATION	NWSW	1807 FSL	1022 FWL	Sec 23	T 9S	R 21E			
	Latitude:	40.019227	Longitu	ıde: -109.52	4767		NAD 83		
BTM HOLE LOCATION	NWSW	1807 FSL	1022 FWL	Sec 23	T 9S	R 21E			
	Latitude:	40.019227	Longitu	ıde: -109.52	4767		NAD 83		
OBJECTIVE ZONE(S)	GREEN RI	VER							
ADDITIONAL INFO	Regulatory	Agencies: BLM (	Minerals), Ute I	ndian Tribe (S	urface), l	JDOGM Tri-Co	ounty Health Dept.		



NBU --- -- -

# KERR-McGEE OIL & GAS ONSHORE LP

#### DRILLING PROGRAM

#### **CASING PROGRAM**

CONDUCTOR

**SURFACE** 

**PRODUCTION** 

								DESIGN F	ACTORS	
									LTC	DQX
SIZE	11	ITERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TE	NSION
14"		0-40'								
							3,390	1,880	348,000	N/A
8-5/8"	0	to	2,780	28.00	IJ-55	LTC	1.94	1.44	4.43	N/A
							7,780	6,350		267,035
4-1/2"	0	to	4,950	11.60	I-80	DQX	1.11	2.97		5.33

Surface Casing:

(Burst Assumptions: TD =

8.3 ppg) 0.73 psi/ft = frac gradient @ surface shoe

(Collapse Assumption: Fully Evacuated Casing, Max MW)

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @

7000 psi)

0.42 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

#### **CEMENT PROGRAM**

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	EAD 500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
Option 1		+ 0.25 pps flocele				
TOP OUT CMT (6	iobs) 1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
		+ 2% CaCl + 0.25 pps flocele				
SURFACE		NOTE: If well will circulate water to	surface, opt	ion 2 will be	utilized	
Option 2	EAD 2,280'	65/35 Poz + 6% Gel + 10 pps gilsonite	210	35%	11.00	3.82
		+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL 500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
		+ 0.25 pps flocele				
TOP OUT	CMT as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	EAD 2,280'	Premium Lite II +0.25 pps	150	35%	11.00	3.38
		celloflake + 5 pps gilsonite + 10% gel				
		+ 0.5% extender				
	TAIL 2,670'	50/50 Poz/G + 10% salt + 2% gel	640	35%	14.30	1.31
		+ 0.1% R-3				

<sup>\*</sup>Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

#### **FLOAT EQUIPMENT & CENTRALIZERS**

**SURFACE** 

Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe

**PRODUCTION** 

Float shoe, 1 jt, float collar. No centralizers will be used.

# **ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

Nick Spence / Danny Showers

DATE:

DRILLING SUPERINTENDENT:

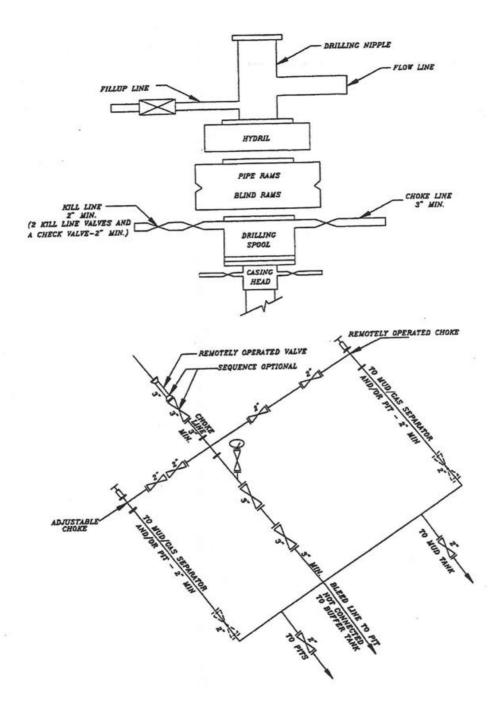
Kenny Gathings / Lovel Young

DATE:

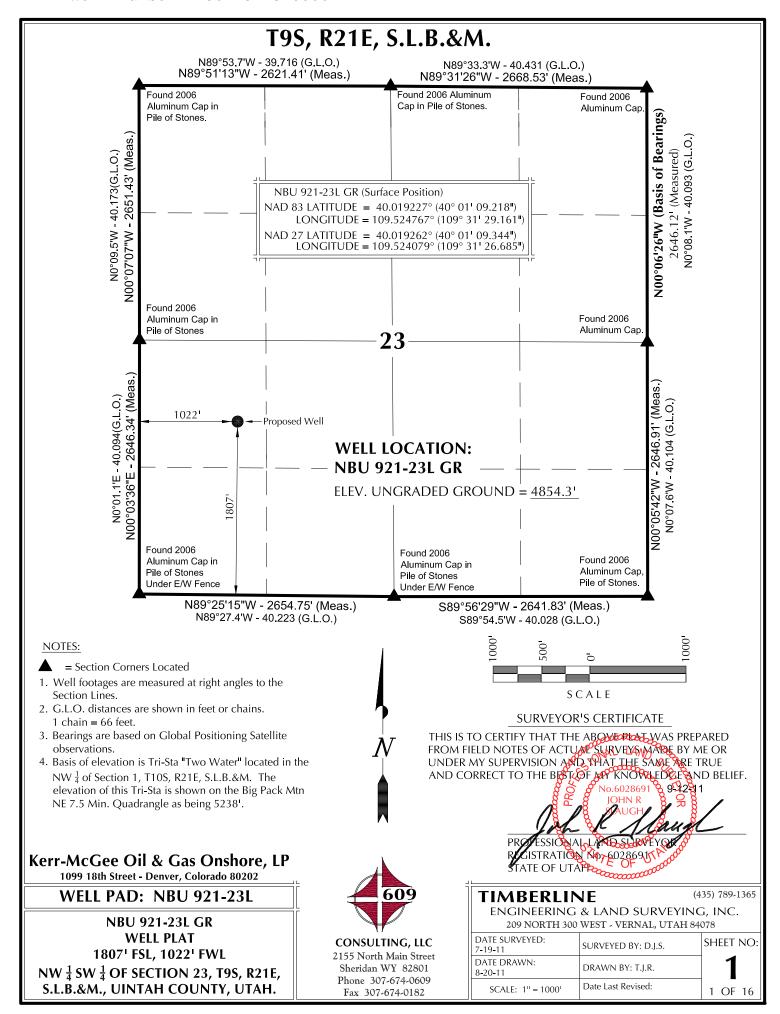
NBU 921-23L GR Green River - Vertical Program Template - 122711.xlsx RECEIVED: May 22, 2012

<sup>\*</sup>Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

EXHIBIT A NBU 921-23L GR



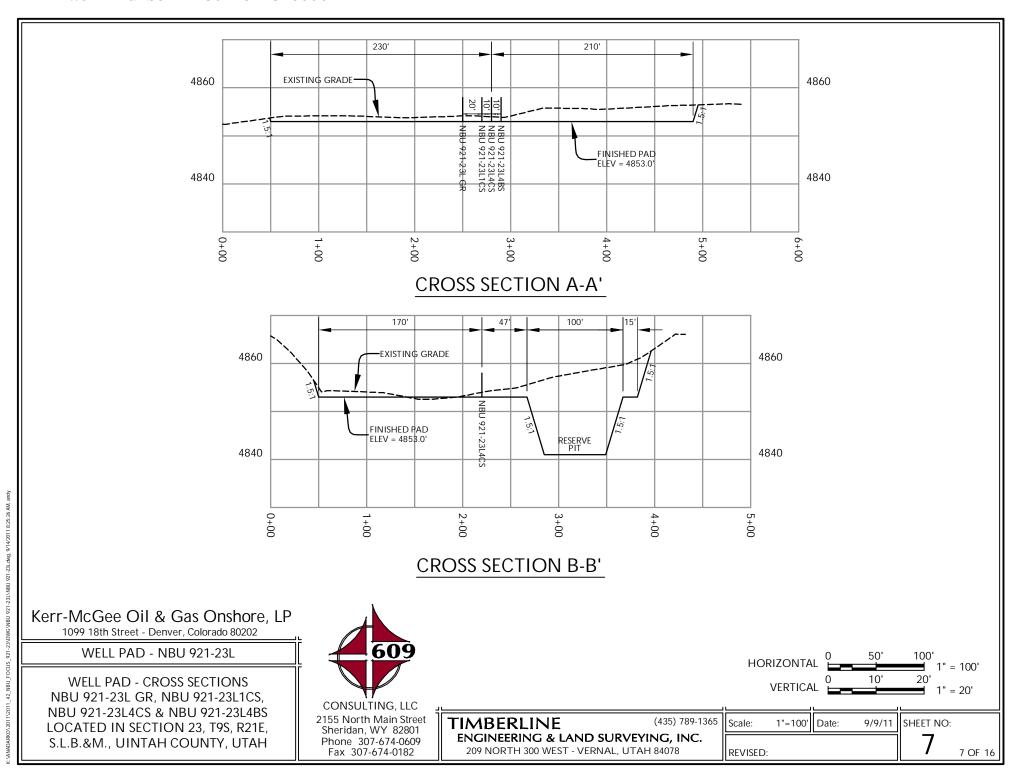
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

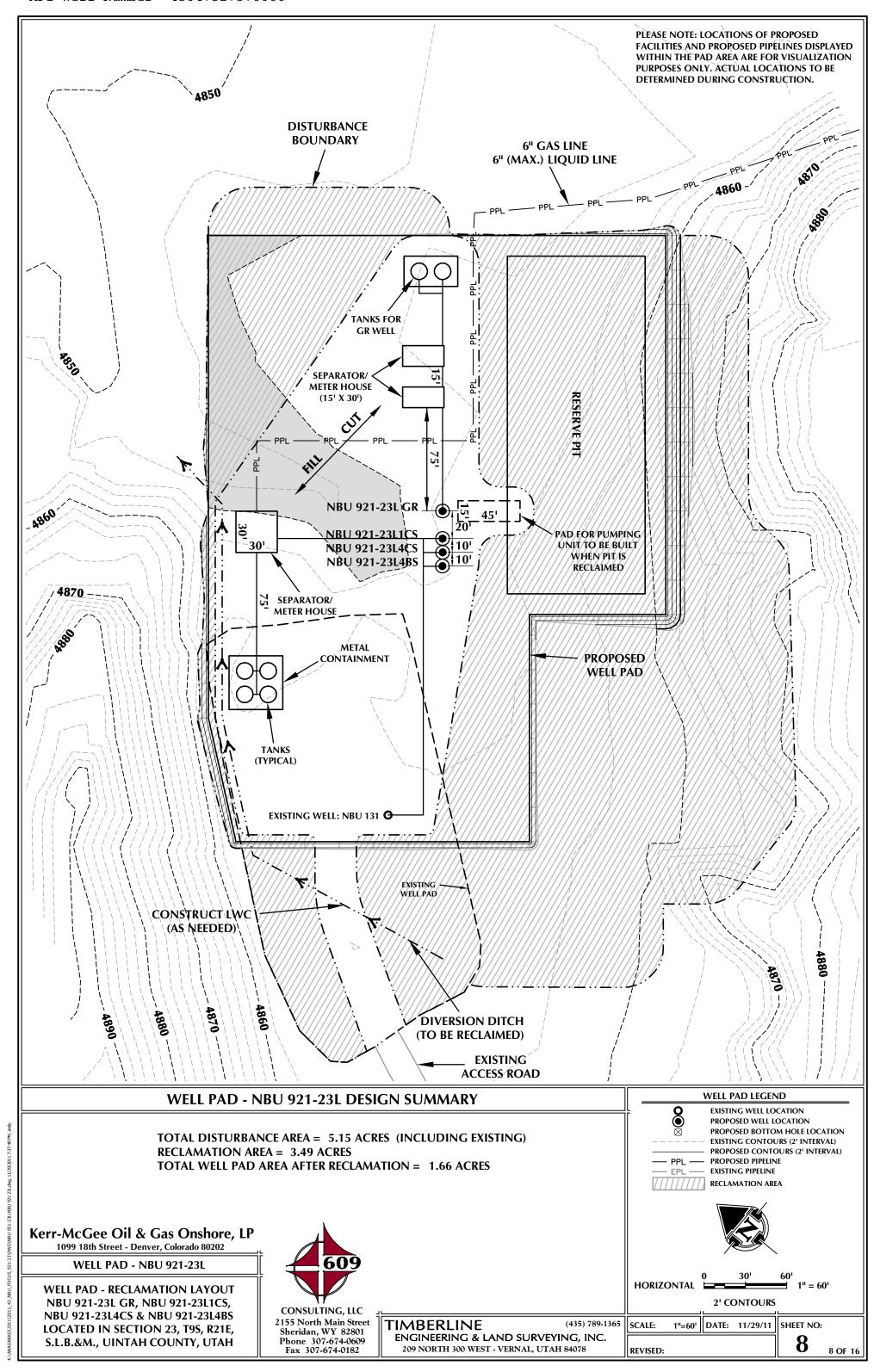


	SURFACE POSITION					BOTTOM HOLE					
WELL NAME	AME NAD83 NAD27			NAI	D27						
NIDI	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	
NBU 921-23L GR	40°01'09.218" 40.019227°	109°31'29.161" 109.524767°	40°01'09.344" 40.019262°	109°31'26.685" 109.524079°	1807' FSL 1022' FWL						
NBU	40°01'09.092"	109.324767 109°31'29.358"		109.324079 109°31'26.882"	1794' FSL	40°01'11.832"	109°31'31.707"	40°01'11.959"	109°31'29.232"	2070' FSL	
921-23L1CS	40.019192°	109.524822°	40.019228°	109.524134°	1007' FWL	40.019953°	109.525474°	40.019989°	109.524787°	8241 FWL	
NBU	40°01'09.029"	109°31'29.457"		109°31'26.981"	1788' FSL	40°01'05.292"	109°31'31.710"		109°31'29.235"		
921-23L4CS NBU	40.019175° 40°01'08.968"	109.524849° 109°31'29.557"	40.019210° 40°01'09.095"	109.524161° 109°31'27.081"	999' FWL 1782' FSL	40.018137° 40°01'08.562"	109.525475° 109°31'31.709"	40.018172° 40°01'08.689"	109.524787° 109°31'29.233"	824' FWL 1739' FSL	
921-23L4BS	40.019158°	109.524877°	40.019193°	109.524189°	991' FWL	40.019045°	109.525475°	40.019080°	109.524787°	824' FWL	
NBU 131	40°01'08.130"	109°31'31.670"	40°01'08.256"		1695' FSL						
	40.018925°	109.525464°	40.018960°	109.524776°	827' FWL						
		П		COORDINATES							
WELL NAME	NORTH			ORTH EAS	T WELL NBU	NAME NOR	TH EAST	_			
NBU 921-23L1CS	277.5'	-182.6 NBU	-23L4CS   -3	78.1' -175.	7   NBU 921-23	-40	.9' -167.5'				
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	S.L.B.&M. WE GLOBAL POS OBSERVATIO	IICH IS TAKEN ITIONING SAT NS TO BEAR N	FROM ELLITE 100°06'26"W.	,0'	113	NBL ST.			/		
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	S.L.B.&M. WH GLOBAL POS OBSERVATIO Bottom of Hole	IICH IS TAKEN ITIONING SAT NS TO BEAR N AZ=2.5 S76°15'5	FROM ELLITE 100°06'26"W. 56.26417° 1"W - 172.45 1"W Hole)		1 Not of	Nau Strate					
	S.L.B.&M. WH GLOBAL POS OBSERVATIO Bottom of Hole	IICH IS TAKEN ITIONING SAT NS TO BEAR N AZ=2.5 S76°15'5	FROM ELLITE 100°06'26"W. 56.26417° 1"W - 172.45 50ttom Hole)		180 977 180 977	Nau 937, 331 C.	P				
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	S.L.B.&M. WH GLOBAL POS OBSERVATIO Bottom of Hole	IICH IS TAKEN ITIONING SAT NS TO BEAR N AZ=2 <sup>1</sup> S76°15'5 (TO E	FROM ELLITE 100°06'26"W. 56.26417° 1"W - 172.45 50ttom Hole)	1528° 416.95, 10(e)	1 SU	181 921 231 CS A	P A. to Chist.				
	S.L.B.&M. WH GLOBAL POS OBSERVATIO Bottom of Hole	IICH IS TAKEN ITIONING SAT NS TO BEAR N AZ=2 <sup>1</sup> S76°15'5 (TO E	FROM ELLITE 100°06'26"W. 56.26417° 1"W - 172.45 50ttom Hole)	4.91528° W.416.95' M.4069'	1 SU	181 921 231 1C	P R. to Chist. W. H.				
	S.L.B.&M. WH GLOBAL POS OBSERVATIO Bottom of Hole	IICH IS TAKEN ITIONING SAT NS TO BEAR N AZ=2 <sup>1</sup> S76°15'5 (TO E	FROM ELLITE 100°06'26"W. 56.26417° 1"W - 172.45 50ttom Hole)	304.91528. 10m 416.95.	1 SU SY IN	181 87 391 C. A. 60 C	P A 10 Chist W. In.				
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Kerr-McC	S.L.B.&M. WHOLOBAL POSOBSERVATIO  Bottom of Hole  Gee Oil & Bath Street - De	AZ=25 S76°15'5 TO BEAR N	FROM ELLITE 100°06'26"W. 56.26417° 172.45 1"W - 172.45 1"	(10 B) (1		X X O CASS.	IMBERL	S C A L		35) 789-1365	
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209 NORTH 300 WEST - VERNAL, UTAH 84078

**REVISED:** 





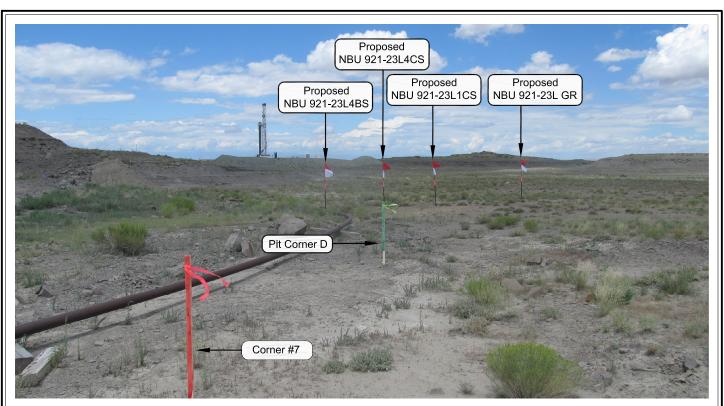


PHOTO VIEW: FROM CORNER #7 TO LOCATION STAKE

**CAMERA ANGLE: NORTHWESTERLY** 



PHOTO VIEW: FROM EXISTING ACCESS ROAD

**CAMERA ANGLE: NORTHEASTERLY** 

Kerr-McGee Oil & Gas Onshore, LP 1099 18th Street - Denver, Colorado 80202

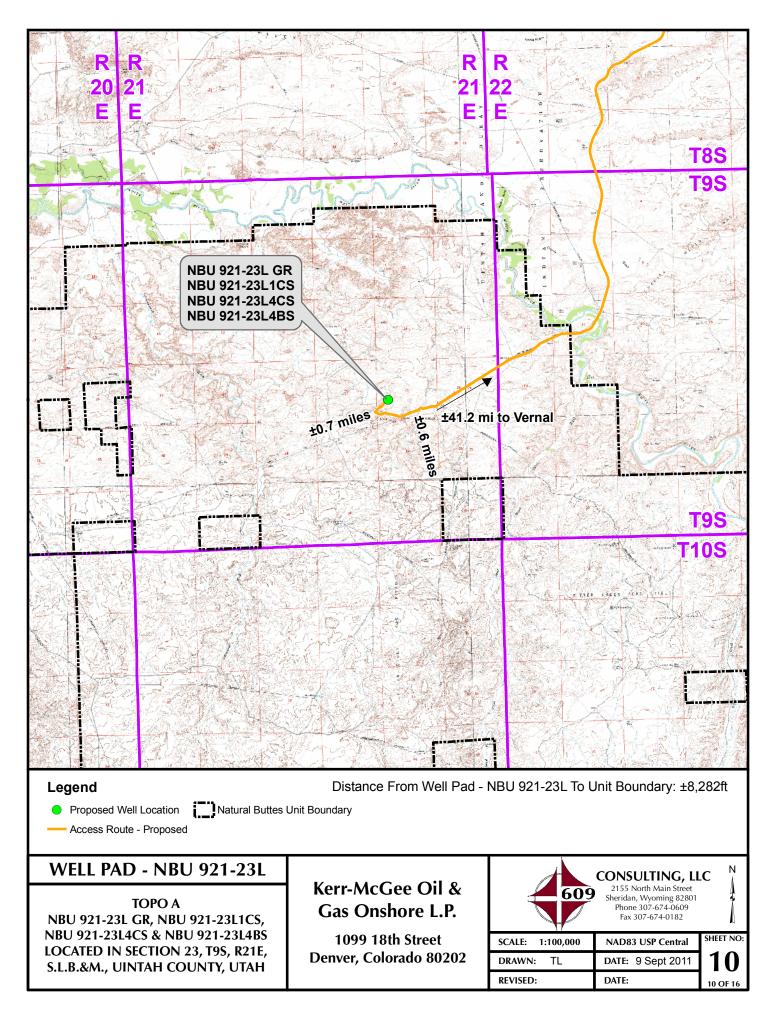
# WELL PAD - NBU 921-23L

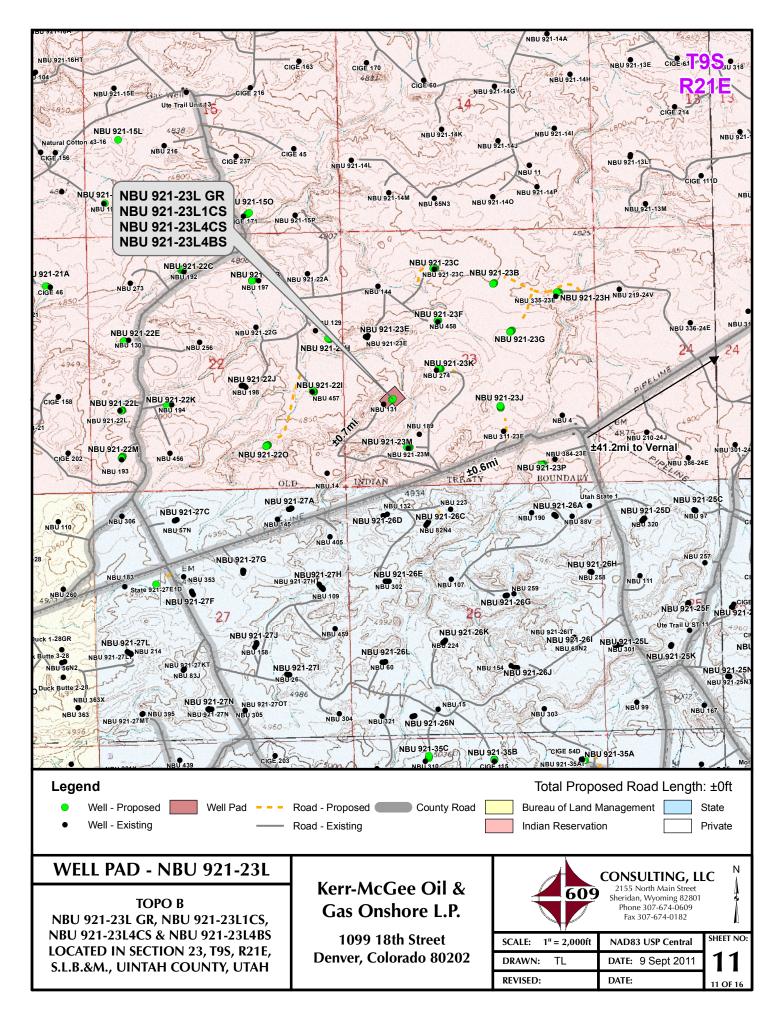
LOCATION PHOTOS
NBU 921-23L GR, NBU 921-23L1CS,
NBU 921-23L4CS & NBU 921-23L4BS,
LOCATED IN SECTION 23, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.

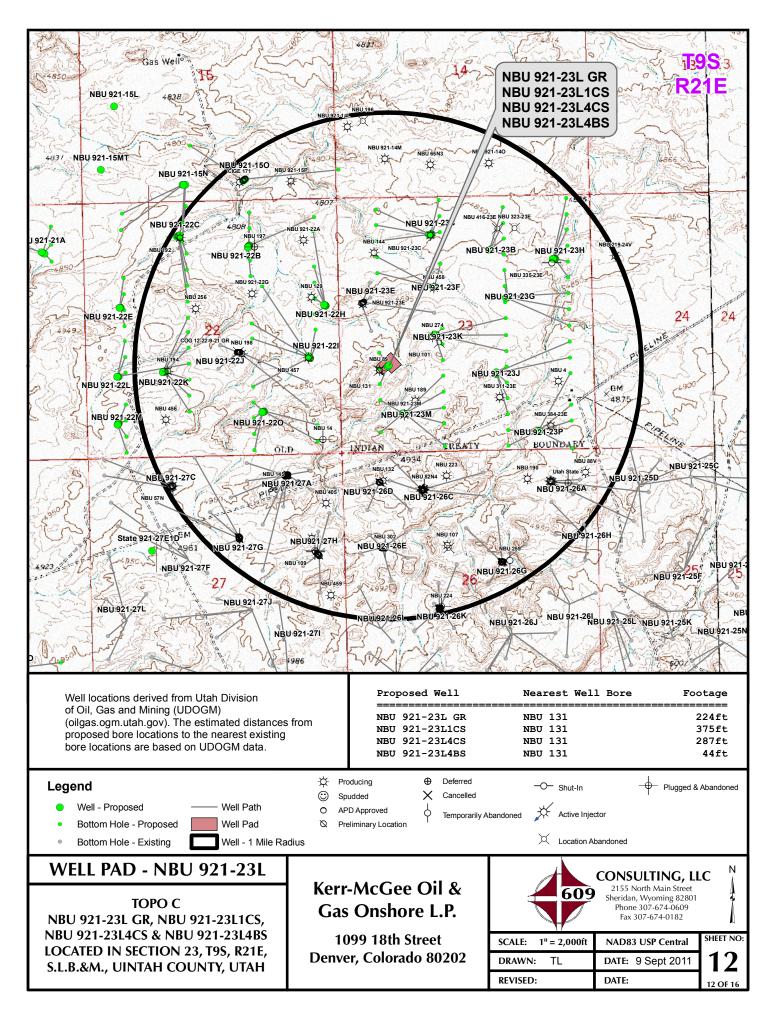


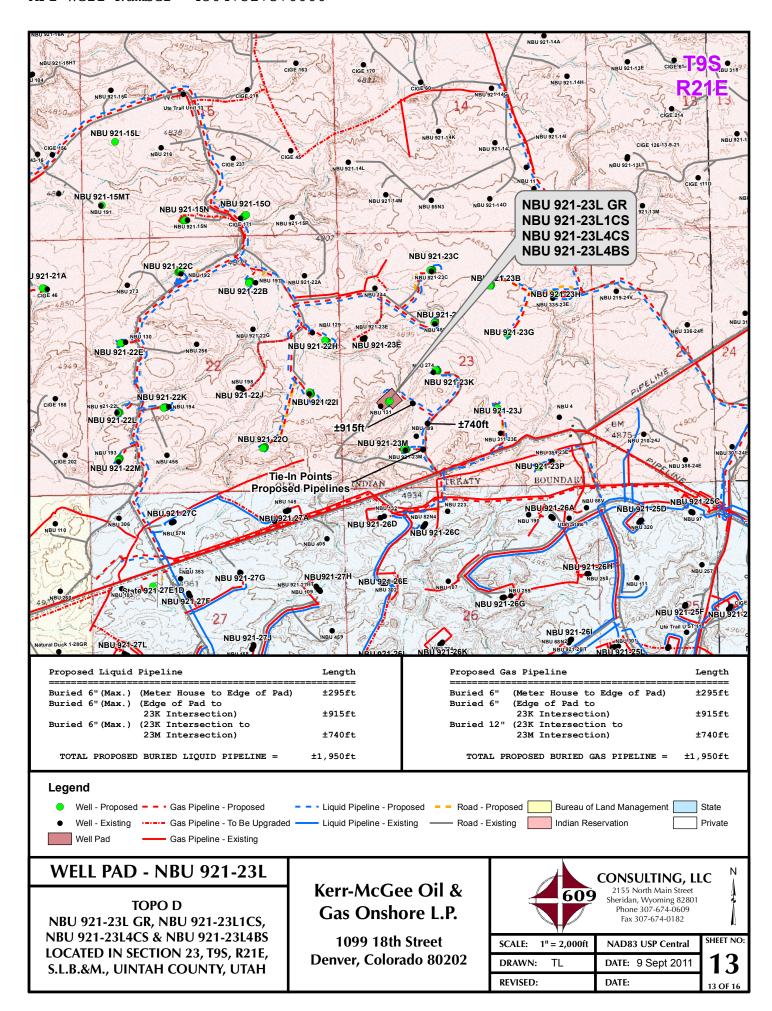
# CONSULTING, LLC 2155 North Main Street Sheridan WY 82801 Phone 307-674-0609 Fax 307-674-0182

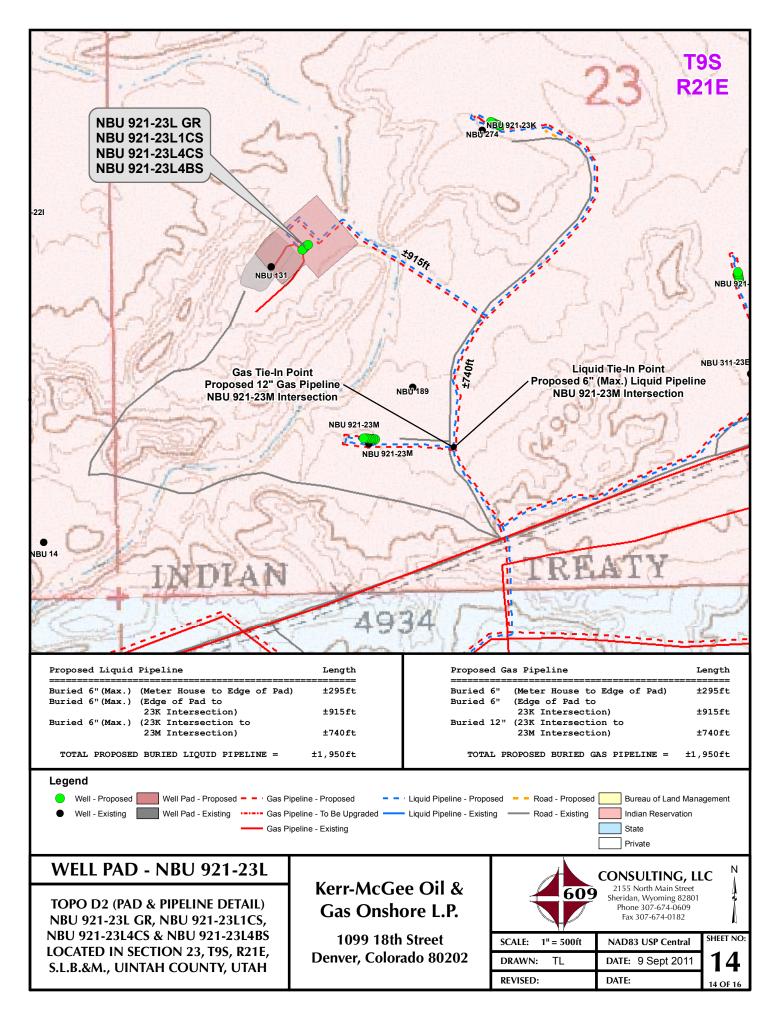
TIMBERLIN	<b>JE</b> (4	35) 789-1365
ENGINEERING	· /	
209 NORTH 300	WEST - VERNAL, UTAH 84	078
DATE PHOTOS TAKEN: 7-19-11	PHOTOS TAKEN BY: D.J.S.	SHEET NO:
DATE DRAWN: 8-20-11	DRAWN BY: T.J.R.	9
Date Last Revised:		9 OF 16

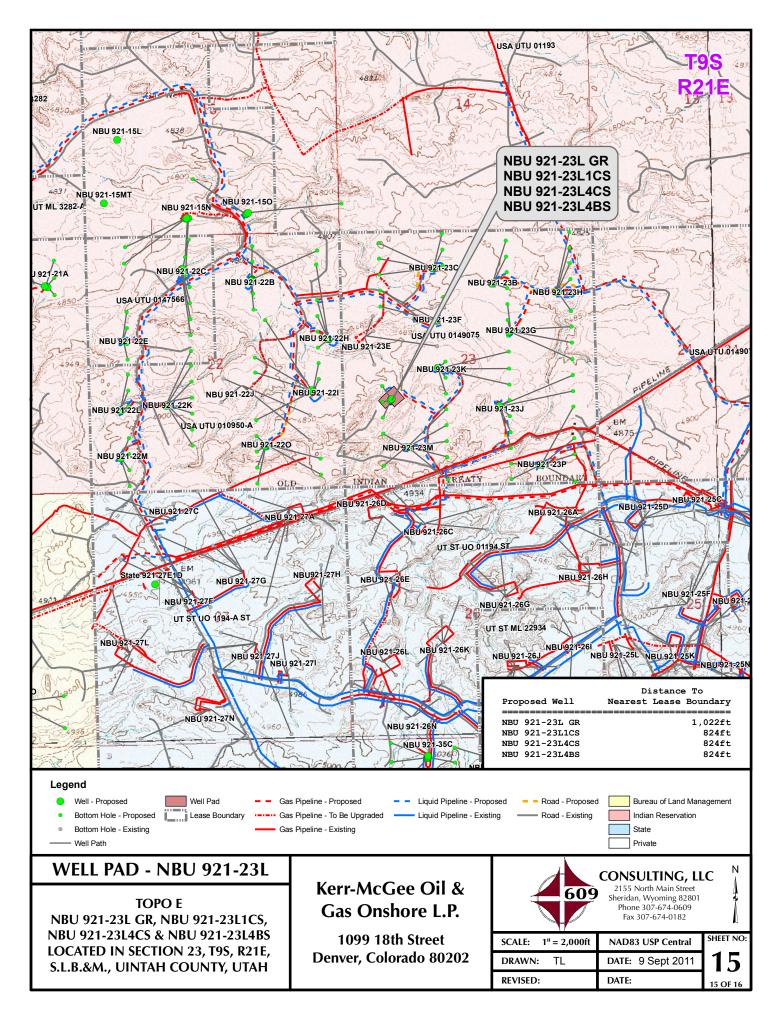












# Kerr-McGee Oil & Gas Onshore, LP WELL PAD - NBU 921-23L WELLS – NBU 921-23L GR, NBU 921-23L1CS, NBU 921-23L4CS & NBU 921-23L4BS Section 23, T9S, R21E, S.L.B.&M.

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 0.6 miles to a service road to the northwest. Exit right and proceed in a northwesterly, then northeasterly direction along the service road approximately 0.7 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.5 miles in a southerly direction.

**SHEET 16 OF 16** 

NBU 921-23L GR/ 921-23L1CS/ 921-23L4BS/ 921-23L4CS Kerr-McGee Oil Gas Onshore, L.P.

NBU 921-23L Pad Surface Use Plan of Operations 1 of 12

# Kerr-McGee Oil & Gas Onshore. L.P.

# NBU 921-23L Pad

<u>API #</u>		NBU 921-23L GR		
	Surface:	1807 FSL / 1022 FWL	NWSW	Lot
	BHL:	1807 FSL / 1022 FWL	NWSW	Lot
<u>API #</u>		NBU 921-23L1CS		
	Surface:	1794 FSL / 1007 FWL	NWSW	Lot
	BHL:	2070 FSL / 824 FWL	NWSW	Lot
API#	_	NBU 921-23L4BS		
	Surface:	1782 FSL / 991 FWL	NWSW	Lot
	BHL:	1739 FSL / 824 FWL	NWSW	Lot
<u>API #</u>	_	NBU 921-23L4CS		
	Surface:	1788 FSL / 999 FWL	NWSW	Lot
	BHL:	1408 FSL / 824 FWL	NWSW	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on October 3-4, 2011. Present were:

- Bucky Secakuku (10/4/2011 only) BIA;
- · LeAllen Blackhair, Rainey Longhair Ute Indian Tribe;
- Kelly Jo Jackson Montgomery Archeological Consultants Inc.;
- · Scott Carson Smiling Lake Consulting;
- John Slaugh, Mitch Batty Timberline Engineering & Land Surveying, Inc.;
- · Laura Abrams, Charles Chase, Raleen White, Doyle Holmes, Lovel Young, Sheila Wopsock Kerr-McGee

#### A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with Onshore Order #1, Kerr-McGee will, in accordance with BMPs, improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing will be performed where excessive rutting or erosion may occur. Dust control will be performed as necessary to ensure safe operating conditions.

NBU 921-23L GR/ 921-23L1CS/ 921-23L4BS/ 921-23L4CS Kerr-McGee Oil Gas Onshore. L.P.

NBU 921-23L Pad Surface Use Plan of Operations 2 of 12

Roads, gathering lines and electrical distribution lines will occupy common disturbance corridors where possible. Where available, roadways will be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor will overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Please refer to Topo B, for existing roads.

#### B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BIA.

Each new well pad or pad expansion may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, as per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activity will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement, construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

No new access road is proposed for this well pad - See Topo B.

NBU 921-23L GR/ 921-23L1CS/ 921-23L4BS/ 921-23L4CS Kerr-McGee Oil Gas Onshore, L.P.

NBU 921-23L Pad Surface Use Plan of Operations 3 of 12

#### C. Location of Existing Wells:

A) Refer to Topo Map C.

#### Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 131, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 10, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad. A berm will be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will generally be constructed of compacted subsoil or corrugated metal, and will hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite (typically Shadow Gray). A production facility layout is provided as part of a project-specific APD, ROW or NOS submission.

#### **GAS GATHERING**

Please refer to Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is  $\pm 1,950$ ° and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±1,950' (0.4 miles) – Section 23 T9S R21E (SW/4) – On-lease UTU0149075, Ute Indian Tribe surface, New 6" and 12" buried gas gathering pipeline from the meter to the NBU 921-23M intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

<u>LIQUID GATHERING</u>
Please refer to Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is  $\pm 1,950$ ' and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±1,950' (0.4 miles) – Section 23 T9S R21E (SW/4) – On-lease UTU0149075, Ute Indian Tribe surface, New 6" buried liquid gathering pipeline from the meter to the NBU 921-23M intersection. Please refer to Topo D2 - Pad and Pipeline Detail.

#### **Pipeline Gathering Construction**

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

RECEIVED: May 22, 2012

NBU 921-23L GR/ 921-23L1CS/ 921-23L4BS/ 921-23L4CS Kerr-McGee Oil Gas Onshore. L.P.

NBU 921-23L Pad Surface Use Plan of Operations 4 of 12

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

Typically, to install a buried pipeline, topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6 feet, but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18-48 inches.

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radiographically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, Kerr-McGee will apply all applicable Army Corps mandates as well as the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the Vernal BIA Office before terminating of the use of the pipeline(s).

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#### The Anadarko Completions Transportation System (ACTS) information:

Kerr-McGee will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit is lined and will be used for the wells drilled on the pad or used as part of our Anadarko Completions Transportation (ACTS) system which is discussed in more detail below. Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

The collected hydrocarbons will be treated and sold at approved sales facilities. A loading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit .

ACTS will require temporarily laying multiple 6" aluminum water transfer lines on the surface between either existing or refurbished reserve pits. The temporary aluminum transfer lines will be utilized to transport frac fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon completion of the frac operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The temporary ACTS lines will be permitted under a separate cover to the Ute Indian Tribe.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. Kerr-McGee requests to keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other frac jobs in the area. After one year Kerr-McGee will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. Kerr-McGee understands that due to the temporary nature of this system, BIA considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BIA.

#### E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

RECEIVED: May 22, 2012

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#### F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from Tribal lands without prior approval from the BIA. A source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BIA.

#### G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BIA, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BIA, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BIA. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with an impermeable liner. The liner will be a synthetic material 30 mil or thicker. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BIA.

Any additional pits necessary for subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

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No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

#### **Materials Management**

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. Kerr-McGee maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

Any produced water separated from recoverable condensate from the proposed well will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

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RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E CIGE 112D SWD in Sec. 19 T9S R21E CIGE 114 SWD in Sec. 34 T9S R21E NBU 921-34K SWD in Sec. 34 T9S R21E NBU 921-33F SWD in Sec. 34 T9S R21E

#### H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

#### I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BIA.

# J. Plans for Surface Reclamation:

The surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. Interim reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

RECEIVED: May 22, 2012

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#### **Interim Reclamation**

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BIA for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit. Disposal of pit fluids and linings is discussed in Section G.

#### **Final Reclamation**

Final reclamation will be performed for unproductive wells and after the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by Kerr-McGee. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. The BIA will be notified prior to commencement of reclamation operations. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site to the approximate contour that existed prior to pad construction, final grading will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers, where practical. The surface soil material will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep, where practical. The entire area will be uniformly covered with the depressions constructed perpendicular to the natural flow of water.

Reclamation of roads will be performed at the discretion of the BIA/Tribe. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications as proposed below in "Measures Common to Interim and Final Reclamation".

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to the BIA/Tribe.

#### **Measures Common to Interim and Final Reclamation**

Soil preparation will be conducted using a disk for areas in need of more soil preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

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Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box" in order to seed "fluffy" seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for

re-vegetation. The seed mixes will be selected from a list provided by or approved by the BIA/Tribe or a specific seed mix will be proposed by Kerr-McGee to the BIA/Tribe and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain "cheat grass free seed".

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Indian Ricegrass (Nezpar)	3
Sandberg Bluegrass	0.75
Bottlebrush Squirreltail	1
Great Basin Wildrye	0.5
Crested Wheatgrass	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing Saltbrush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

# **Weed Control**

Noxious weeds will be controlled in akk orihect areas un accordance with all applicable rules and regulations.

#### K. Surface/Mineral Ownership:

Ute Indian TribeUnited States of AmericaP.O. Box 70Bureau of Land Management988 South 7500 East Annex Building170 South 500 EastFort Duschesne, UT 84026Vernal, UT 84078(435) 722-4307(435)781-4400

### L. Other Information:

#### **Onsite Specifics:**

- Construct diversion ditch around corners 4, 5 and 6
- Arch monitor during construction
- Paleo monitor during construction
- Energy and Mninerals monitoring during construction
- Move excess cut stockpile to corners 6, 7 and 8 to avoid rock formation

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#### **Cultural and Paleontological Resources**

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and Kerr-McGee will provide immediate notification to the BIA.

#### **Resource Reports:**

A Class I literature survey was completed in September, 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-261.

A paleontological reconnaissance survey was completed on June 28, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT11-14314-132.

Biological field survey was completed on August 18 and 23, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-582.

#### **Proposed Action Annual Emissions Tables:**

<b>Table 1: Proposed Action Annual Emissions (tons/year)</b> <sup>1</sup>								
Pollutant	Development	Production	Total					
NOx	3.8	0.12	3.92					
CO	2.2	0.11	2.31					
VOC	0.1	4.9	5					
$SO_2$	0.005	0.0043	0.0093					
$PM_{10}$	1.7	0.11	1.81					
PM <sub>2.5</sub>	0.4	0.025	0.425					
Benzene	2.2E-03	0.044	0.046					
Toluene	1.6E-03	0.103	0.105					
Ethylbenzene	3.4E-04	0.005	0.005					
Xylene	1.1E-03	0.076	0.077					
n-Hexane	1.7E-04	0.145	0.145					
Formaldehyde	1.3E-02	8.64E-05	1.31E-02					

<sup>&</sup>lt;sup>1</sup> Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory <sup>a</sup> (ton/yr)	to WRAP Phase
NOx	15.68	16,547	0.09%
VOC	20	127,495	0.02%

 $<sup>^</sup>a\ http://www.wrapair.org/forums/ogwg/PhaseIII\_Inventory.html$ 

Uintah Basin Data

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### M. Lessee's or Operators' Representative & Certification:

Laura Abrams Regulatory Analyst II Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6356 Tommy Thompson General Manager, Drilling Kerr-McGee Oil & Gas Onshore LP PO Box 173779 Denver, CO 80217-3779 (720) 929-6724

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

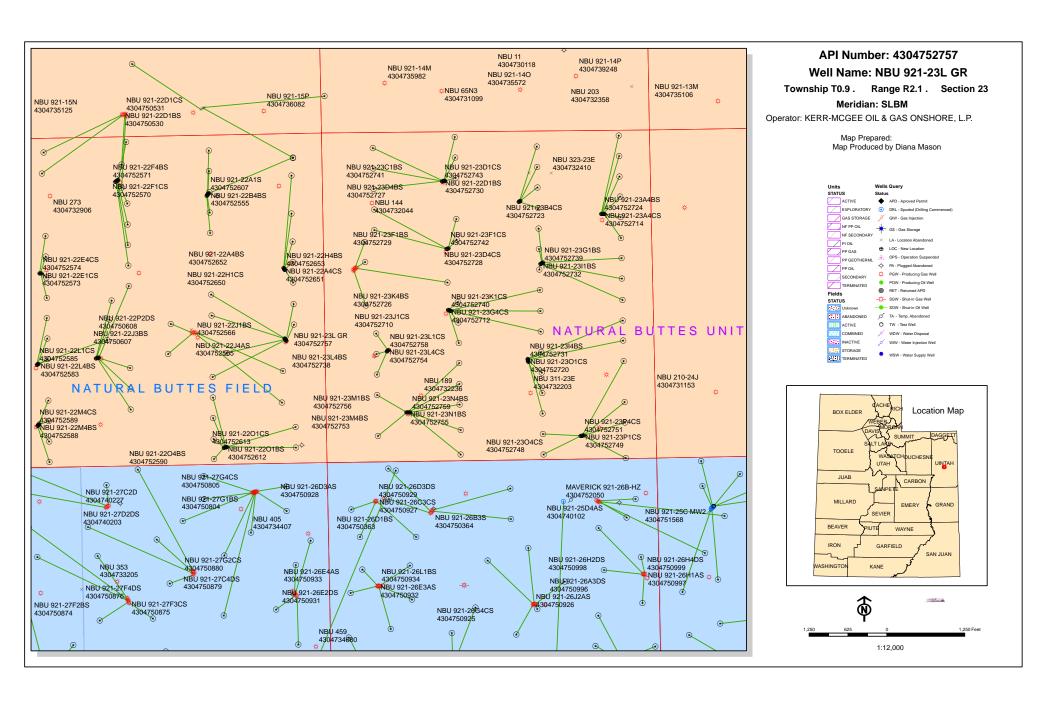
The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.

2 ama Assamo	December 28, 2011
Laura Abrams	Date



# WORKSHEET APPLICATION FOR PERMIT TO DRILL

**APD RECEIVED:** 5/24/2012 **API NO. ASSIGNED:** 43047527570000

WELL NAME: NBU 921-23L GR

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) PHONE NUMBER: 720 929-6156

**CONTACT:** Danielle Piernot

PROPOSED LOCATION: NWSW 23 090S 210E Permit Tech Review:

SURFACE: 1807 FSL 1022 FWL Engineering Review: 

✓

BOTTOM: 1807 FSL 1022 FWL Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01921 LONGITUDE: -109.52473 UTM SURF EASTINGS: 625896.00 NORTHINGS: 4430931.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0149075 PROPOSED PRODUCING FORMATION(S): GREEN RIVER

SURFACE OWNER: 2 - Indian COALBED METHANE: NO

**RECEIVED AND/OR REVIEWED:** LOCATION AND SITING: ✓ PLAT R649-2-3. Unit: NATURAL BUTTES Bond: FEDERAL - WYB000291 **Potash** R649-3-2. General Oil Shale 190-5 Oil Shale 190-3 R649-3-3. Exception **Drilling Unit** Oil Shale 190-13 Board Cause No: Cause 197-013 Water Permit: 43-8496 Effective Date: 8/21/2012 **RDCC Review:** Siting: 460' Fr U Bdry & Uncommitted Tracts Fee Surface Agreement

Intent to Commingle 

✓ R649-3-11. Directional Drill

**Commingling Approved** 

Comments: Presite Completed

**Stipulations:** 4 - Federal Approval - dmason

15 - Directional - dmason 17 - Oil Shale 190-5(b) - dmason



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

#### Permit To Drill

\*\*\*\*\*\*

Well Name: NBU 921-23L GR API Well Number: 43047527570000 Lease Number: UTU 0149075

Surface Owner: INDIAN Approval Date: 8/27/2012

#### Issued to:

KERR-MCGEE OIL & GAS ONSHORE, L.P., P.O. Box 173779, Denver, CO 80217

#### Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 197-013. The expected producing formation or pool is the GREEN RIVER Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

#### **Duration:**

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

#### General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

#### **Conditions of Approval:**

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

#### **Notification Requirements:**

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available) OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

#### Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
  - Requests to Change Plans (Form 9) due prior to implementation
  - Written Notice of Emergency Changes (Form 9) due within 5 days
- $\bullet$  Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
  - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

JAN 10 2012

FORM APPROVED OMB No. 1004-0136 Expires July 31, 2010

### **UNITED STATES** DEPARTMENT OF THE INTERIOR DEPARTMENT OF THE BUREAU OF LAND MANAGEMENT

5. Lease Serial No. UTU0149075

APPLICATION FOR PERMIT	TO DRILL OR REENTER	6. If Indian, Allottee or Tril	oe Name
1a. Type of Work: ☑ DRILL ☐ REENTER		7. If Unit or CA Agreement UTU63047A	
1b. Type of Well: ☐ Oil Well     Gas Well ☐ O	ther Single Zone 🔲 Multiple Zone	8. Lease Name and Well No NBU 921-23L GR	).
2. Name of Operator Contact KERR MCGEE OIL&GAS ONSHORE Mail Plaura.	: LAURA ABRAMS Abrams@anadarko.com	9. API Well No. U2-047-5275	<del></del>
3a. Address PO BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6356 Fx: 720-929-7356	10. Field and Pool, or Explo NATURAL BUTTES	oratory
4. Location of Well (Report location clearly and in accord	ance with any State requirements.*)	11. Sec., T., R., M., or Blk.	and Survey or Area
At surface NWSW 1807FSL 1022FW	L 40.019227 N Lat, 109.524767 W Lon	Sec 23 T9S R21E M	er SLB
At proposed prod. zone NWSW 1807FSL 1022FW	L 40.019227 N Lat, 109.524767 W Lon		
<ol> <li>Distance in miles and direction from nearest town or post APPROXIMATELY 41.2 MILES SOUTH OF VE</li> </ol>	office* RNAL, UT	12. County or Parish UINTAH COUNTY	13. State UT
<ol> <li>Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)</li> <li>1022'</li> </ol>	16. No. of Acres in Lease 640.00	17. Spacing Unit dedicated	to this well
<ol> <li>Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 224'</li> </ol>	19. Proposed Depth 4959 MD 4959 TVD	20. BLM/BIA Bond No. on WYB000291	file
21. Elevations (Show whether DF, KB, RT, GL, etc. 4854 GL	22. Approximate date work will start 06/30/2012	23. Estimated duration 60-90 DAYS	
	24. Attachments		
The following, completed in accordance with the requirements of	f Onshore Oil and Gas Order No. 1, shall be attached to the	nis form:	
<ol> <li>Well plat certified by a registered surveyor.</li> <li>A Drilling Plan.</li> <li>A Surface Use Plan (if the location is on National Forest Syst SUPO shall be filed with the appropriate Forest Service Of</li> </ol>	4. Bond to cover the operation Item 20 above). 5. Operator certification 6. Such other site specific info authorized officer.	•	
25. Signature (Electronic Submission)	Name (Printed/Typed) LAURA ABRAMS Ph: 720-929-6356		Date 12/30/2011
Title REGULATORY ANALYST II			
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka		AUG 1 7 201
Assistant Field Wanager Lands & Mineral Resources	Office VERNAL FIELD OFFICE		

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHT CONDITIONS OF APPROVAL ATTACHE Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Additional Operator Remarks (see next page)

AUG 2 7 2012

Electronic Submission #127108 verified by the BLM Well Information System For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Verified Management of the Verifie PIV. OF OIL, GAS & MINING

APN Dostad

NOTICE OF APPROVAL

\*\* OPERATOR-SUBMITTED \*\* OPERATOR-SUBMITTED \*\*

171 BR 1741A9



#### UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE**

**VERNAL. UT 84078** 

(435) 781-4400



#### CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Well No: API No:

Kerr McGee Oil & Gas Onshore, LP

170 South 500 East

**NBU 921-23L GR** 

43-047-52757

Location:

NWSW, Sec. 23, T9S, R21E

Lease No: UTU-0149075 **Agreement:** 

**Natural Buttes** 

**OFFICE NUMBER:** (435) 781-4400

**OFFICE FAX NUMBER:** (435) 781-3420

#### A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

#### **NOTIFICATION REQUIREMENTS**

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to:  blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

Page 2 of 6 Well: 921-23L GR 8/10/2012

## SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO<sub>x</sub> per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO<sub>x</sub> per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Paint facilities "Shadow Gray".
- Conduct a raptor survey prior to construction operations if such activities would take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during the survey, operations shall be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines.
- If constructed and/or drilling operations have not been initiated prior to August 24, 2012, conduct a
  biological survey to determine the presence of Uintah Basin hookless cactus in accordance with the
  guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD.
  KMG will implement commitments contained in the GNB BO.
- Monitor construction operations with a Ute Energy & Minerals technician.
- Monitor construction operations with a permitted archeologist.
- Monitor construction operations with a permitted paleontologist.
- Construct diversion ditch around corners #4 and #5 to corners #6, #7, and #8 to avoid rock formation.
- Move excess cut stockpile from corners #4 and #5 to corners #6, #7, and #8 to avoid rock formation.

Page 3 of 6 Well: 921-23L GR 8/10/2012

## DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

#### SITE SPECIFIC DOWNHOLE COAs:

Gamma ray Log shall be run from Total Depth to Surface.

#### Variances Granted:

#### Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40'from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT test.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

#### DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a

Page 4 of 6 Well: 921-23L GR 8/10/2012

test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.

- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
  encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
  Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
   Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the <u>top of cement</u> and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to BLM\_UT\_VN\_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 6 Well: 921-23L GR 8/10/2012

### OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at <a href="https://www.ONRR.gov">www.ONRR.gov</a>.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
  notified when it is placed in a producing status. Such notification will be by written communication
  and must be received in this office by not later than the fifth business day following the date on
  which the well is placed on production. The notification shall provide, as a minimum, the following
  informational items:
  - Operator name, address, and telephone number.
  - O Well name and number.
  - Well location (1/4/4, Sec., Twn, Rng, and P.M.).
  - Date well was placed in a producing status (date of first production for which royalty will be paid).
  - O The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
  - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
  - O Unit agreement and/or participating area name and number, if applicable.
  - o Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be
  reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported
  verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will
  be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of
  Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid,

Page 6 of 6 Well: 921-23L GR 8/10/2012

and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
  Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
  future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
  BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
  hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
  be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
  equipment shall be removed from a well to be placed in a suspended status without prior approval
  of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
  approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
  of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 41252 API Well Number: 43047527570000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0149075
SUNDF	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-23L GR
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047527570000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18t	h Street, Suite 600, Denver, CO, 80217	<b>PHONE NUMBER:</b> 73779 720 929-	9. FIELD and POOL or WILDCAT: 5NATERAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1807 FSL 1022 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNS	HIP, RANGE, MERIDIAN: 23 Township: 09.0S Range: 21.0E Meri	dian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICAT	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
8/27/2013	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
12. DESCRIBE PROPOSED OR	COMPLETED OPERATIONS. Clearly show a	all pertinent details including dates.	depths, volumes, etc.
Kerr-McGee Oil & G an extension to this	Sas Onshore, L.P. (Kerr-McGo APD for the maximum time with any questions and/or co	ee) respectfully requests allowed. Please contact	Approved by the Utah Division of Oil, Gas and Mining
			Date: August 15, 2013
			By: Docyll
NAME (PLEASE PRINT)	PHONE NUMB		
Teena Paulo SIGNATURE	720 929-6236	Staff Regulatory Specialist  DATE	
N/A		8/13/2013	

Sundry Number: 41252 API Well Number: 43047527570000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047527570000

API: 43047527570000 Well Name: NBU 921-23L GR

Location: 1807 FSL 1022 FWL QTR NWSW SEC 23 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 8/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership characters in No	anged, if so, has the surface agreement been updated?
Have any wells been drilled in the vicinity of the requirements for this location?     Yes	e proposed well which would affect the spacing or siting
• Has there been any unit or other agreements pu proposed well? ( Yes ( No	It in place that could affect the permitting or operation of thi
Have there been any changes to the access rou proposed location?     Yes	te including ownership, or rightof- way, which could affect th
• Has the approved source of water for drilling ch	anged? 🔘 Yes 📵 No
Have there been any physical changes to the su plans from what was discussed at the onsite even	rface location or access route which will require a change in aluation? ( Yes ( No
• Is bonding still in place, which covers this prope	osed well? 📵 Yes 🔘 No
nature: Teena Paulo Date: 8/	13/2013

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Sundry Number: 53545 API Well Number: 43047527570000

	STATE OF UTAH		FORM 9
	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0149075
SUNDF	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: NBU 921-23L GR
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ON	NSHORE, L.P.		9. API NUMBER: 43047527570000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18tl	h Street, Suite 600, Denver, CO, 8021	<b>PHONE NUMBER:</b> 7 3779 720 929-0	9. FIELD and POOL or WILDCAT: 1NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1807 FSL 1022 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 09.0S Range: 21.0E Meri	idian: S	STATE: UTAH
11. CHEC	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
7	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
8/27/2014	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
Date of Work Completion.	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
DRILLING REPORT	WATER SHUTOFF	SI TA STATUS EXTENSION	✓ APD EXTENSION
Report Date:	WILDCAT WELL DETERMINATION	OTHER	OTHER:
Kerr-McGee Oil & G an extension to this	COMPLETED OPERATIONS. Clearly show Gas Onshore, L.P. (Kerr-McGoord APD for the maximum time with any questions and/or c	ee) respectfully requests allowed. Please contact	Approved by the Uhally D7vi2014of Oil, Gas and Mining  Date:  By:
NAME (DI TAGE STILLE)		SED TITLE	
NAME (PLEASE PRINT) Teena Paulo	<b>PHONE NUMB</b> 720 929-6236	Staff Regulatory Specialist	
SIGNATURE N/A		<b>DATE</b> 7/16/2014	

Sundry Number: 53545 API Well Number: 43047527570000



#### The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

**Electronic Permitting System - Sundry Notices** 

#### Request for Permit Extension Validation Well Number 43047527570000

API: 43047527570000 Well Name: NBU 921-23L GR

Location: 1807 FSL 1022 FWL QTR NWSW SEC 23 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

**Date Original Permit Issued:** 8/27/2012

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

• If located on private land, has the ownership changed, if so, has the surface agreement been updated? Q Yes  No
<ul> <li>Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location?</li> <li>Yes</li> <li>No</li> </ul>
<ul> <li>Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well?</li> <li>Yes</li> <li>No</li> </ul>
• Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? ( Yes ( No
• Has the approved source of water for drilling changed?   Yes  No
• Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?   Yes  No
• Is bonding still in place, which covers this proposed well? 📵 Yes 🔘 No
nature: Teena Paulo Date: 7/16/2014

Sig

Title: Staff Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

	UNITED STATES	TERIOR	CEI		OMB NO	APPROVED D. 1004-0135 July 31, 2010
SUNDRY DO NOT USE the	UREAU OF LAND MANAC NOTICES AND REPOR Is form for proposals to c	TS ON WEL	war an 🕝		5. Lease Serial No. UTU0149075	
CEP 1 abandaned we	s form for proposals to o II. Use form 3160-3 (APD	for Just	Possity C	naL	I Indian, Allottee of	r Tribe Name
ABANGENEE WELL CONTROL OF THE STATE OF THE S	PLICATE - Other instruct	ions on reven	se side.		891008900A	ment, Name and/or No.
O() Type of Well Gas Well Oth	ner				8. Well Name and No. NBU 921-23L GR	
2. Name of Operator KERR MCGEE OIL & GAS OI	Contact: 1	EENA PAULO @anadarko.com	) .		9. API Well No. 43-047-52757-0	0-X1
3a. Address 1368 SOUTH 1200 EAST VERNAL, UT 84078		3b. Phone No. (i Ph: 720-929- Fx: 720-929-7	6236		10. Field and Pool, or NATURAL BUT	Exploratory TES
4. Location of Well (Footage, Sec., 7	., R., M., or Survey Description)				11. County or Parish, a	and State
Sec 23 T9S R21E NWSW 180 40.019227 N Lat, 109.524767					UINTAH COUN	TY, UT
12. СНЕСК АРРІ	ROPRIATE BOX(ES) TO	INDICATE N	ATURE OF N	NOTICE, RE	EPORT, OR OTHE	R DATA
TYPE OF SUBMISSION			TYPE OF	ACTION		
■ Notice of Intent	☐ Acidize☐ Alter Casing	☐ Deeper☐ Fractur		☐ Producti	ion (Start/Resume) ation	☐ Water Shut-Off ☐ Well Integrity
☐ Subsequent Report	Casing Repair		onstruction	Recomp		Other Change to Original A
☐ Final Abandonment Notice	☐ Change Plans ☐ Convert to Injection	☐ Plug ar	nd Abandon ack	☐ Tempor	arily Abandon Disposal	PD
13. Describe Proposed or Completed Op If the proposal is to deepen direction. Attach the Bond under which the wo following completion of the involved testing has been completed. Final Al determined that the site is ready for for Kerr-McGee Oil & Gas Onshop extension to this APD for the undersigned with any question.	ally or recomplete horizontally, grk will be performed or provide to deperations. If the operation responds not the file inal inspection.)  ore, L.P. (Kerr-McGee) responds not time allowed. Plans and/or comments. Than	tive subsurface loc he Bond No. on fi ults in a multiple of d only after all req pectfully reques pase contact the	ations and measurable with BLM/BIA ompletion or recourrements, including the arms and the arms are arms and the arms are arms arms are arm	red and true ve Required sub impletion in a r ing reclamation	rtical depths of all pertin osequent reports shall be new interval, a Form 316	ent markers and zones. filed within 30 days 0-4 shall be filed once and the operator has  FFICE
	Electronic Submission #2 For KERR #ICGEE mitted to AFM38 for proces	sing by ROBIN	R. HANSEN on	95/13/2014 (	14RRH7499SE)	
Name (Printed/Typed) TEENA F	AULO		itle STAFF	REGULATO	ORY SPECIALIST	
Signature (Electronic	Submission)		Date 05/09/20	014		
	THIS SPACE FO	R FEDERAL	OR STATE	OFFICE U	\$E	
Approved By			T:41		d Manager	AUG 0.7 2014
Approved By  Conditions of approved it any are attached certify that the approved it any are attached certify that the approved it any are attached to the state of the state	uitable title to those rights in the	not warrant or subject lease			. FIELD OFFIC	
which would entitle the applicant to condi Title 18 U.S.C. Section 1001 and Title 43 States any false, fictitious or fraudulent	U.S.C. Section 1212, make it a	rime for any pers		حسنست		

\*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\* BLM REVISED \*\*

## **CONDITIONS OF APPROVAL**

## Kerr McGee Oil & Gas

# **Notice of Intent APD Extension**

Lease:

UTU-0149075

Well:

NBU 921-23L GR

Location:

NWSW Sec 23 T9S-R21E

An extension for the referenced APD is granted with the following conditions:

- 1. The APD extension shall expire on 8/17/16
- 2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Michael Riches of this office at (435) 781-4438



## State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

**September 24, 2015** 

Kerr-McGee Oil & Gas Onshore, LP. 1099 18th Street, Suite 600 Denver, CO 80217

Re: APDs Rescinded for Kerr-McGee O&G Onshore, L.P., Uintah County

Ladies and Gentlemen:

Enclosed find the list of APDs that is being rescinded. No drilling activity at these locations has been reported to the division. Therefore, approval to drill these wells is hereby rescinded as of September 24, 2015.

A new APD must be filed with this office for approval <u>prior</u> to the commencement of any future work on the subject location.

If any previously unreported operations have been performed on this well location, it is imperative that you notify the Division immediately.

Sincerely,

Diana Mason

**Environmental Scientist** 

hand Mason

cc: Well File

Bureau of Land Management, Vernal



43-047-52757	NBU 921-23L GR
43-047-52772	BONANZA 1023-16B4CS
43-047-52773	BONANZA 1023-16A1CS
43-047-52776	BONANZA 1023-16A4BS
43-047-52777	BONANZA 1023-16G1BS
43-047-52778	BONANZA 1023-16A4CS
43-047-52779	BONANZA 1023-16B1CS
43-047-52780	BONANZA 1023-16H1BS
43-047-52781	BONANZA 1023-16B4BS
43-047-52782	BONANZA 1023-16H4CS
43-047-52783	BONANZA 1023-1601BS
43-047-52784	BONANZA 1023-16G4BS
43-047-52845	BONANZA 1023-16G4CS
43-047-52846	BONANZA 1023-1614CS
43-047-52847	BONANZA 1023-16P1BS
43-047-52848	BONANZA 1023-16O4BS
43-047-52849	BONANZA 1023-16P4BS
43-047-52850	BONANZA 1023-16P1CS
43-047-52851	BONANZA 1023-16J1BS
43-047-52852	BONANZA 1023-16J4CS
43-047-52853	BONANZA 1023-16I1BS
43-047-52854	BONANZA 1023-16H4BS
43-047-52855	BONANZA 1023-16I4BS
43-047-52856	BONANZA 1023-16J1CS
43-047-52857	BONANZA 1023-1601CS
43-047-52858	BONANZA 1023-16I1CS
43-047-52859	BONANZA 1023-16H1CS



### **United States Department of the Interior**

BUREAU OF LAND MANAGEMENT

Green River District Vernal Field Office 170 South 500 East Vernal, UT 84078

http://www.blm.gov/ut/st/en/fo/vernal.html



NOV 1 0 2016

IN REPLY REFER TO: 3160 (UTG011)

Kerr McGee Oil & Gas LP Att: Joel Malefvt PO Box 173779 Denver, Colorado 80202-3779

RECEIVED

NOV 2 & 2016

Dear Joel Malefyt

OIV. OF OIL, GAS & MINING
The referenced Applications for Permit to Drill (APD) have expired. According to our records, although no known activity has transpired for these specific wells there is an abandoned well on the pad. In view of the foregoing, this office is notifying you that the approval of the referenced applications has expired. If you intend to drill at these locations in the future, a new Application for Permit to Drill must be submitted.

43-047-

	Lease	Well	Aliquot	Sec., T., R.	Date Rec'd	APD	Date Exp'd
į						Approved	
52738	UTU-0149075	NBU 921-23L4BS	NWSW	23-T9S-R21E	1/10/2012	8/17/2012	8/17/2016
52754	UTU-0149075	NBU 921-23L4CS	NWSW	23-T9S-R21E	1/10/2012	8/17/2012	8/17/2016
52757	UTU-0149075	NBU 921-23L GR	NWSW	23-T9S-R21E	1/10/2012	8/17/2012	8/17/2016
52728	UTU-0149075	NBU 921-23L1CS	NWSW	23-T9S-R21E	1/10/2012	8/17/2012	8/17/2016

Any surface disturbance associated with the approved location of these wells is to be rehabilitated. A schedule for this rehabilitation must be submitted to this office. Your cooperation in this matter is appreciated.

If you have any questions regarding this matter, please contact Beth Hamann at (435) 781-3430.

Sincerely,

Jerrv Kenczka

Assistant Field Manager Lands & Mineral Resources